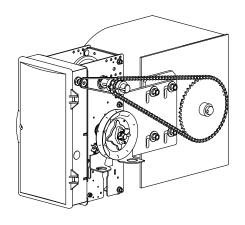


The Genuine. The Original.



ROLLING STEEL



PROPER APPLICATION

Door Type	Operator Type	HP/Max Door Weight
Rolling Steel (All Types)	Hoist/Jackshaft (Front of Hood, Top of Hood)	1/2HP = 625 lbs (Available in 1/2HP only)

WITH EXCLUSIVE FEATURES:

SuperBelt®

NOT FOR RESIDENTIAL USE

This Installation Manual provides the information required to install, troubleshoot and maintain an RMX® Commercial/Industrial Door Operator.

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Section 1: How to use this manual

The 11 sections of this Installation Manual provide the information required to install, troubleshoot and maintain an RMX® commercial/industrial door operator.

Section 2

Provides important defining information related to safety terminology used throughout this manual, as well as safety related instructions which must be followed at all times while doing any steps/tasks/instructions detailed in this manual.

Section 3

Details pre-installation concerns/issues/decisions that are recommended to be considered and/or resolved prior to beginning any commercial door operator installation.

AWARNING

Failure to correctly perform all steps in sections 4-6 can result in serious injury or death.

AAVERTISSEMENT

Ne pas effectuer correctement toutes les étapes dans les sections 4-6 peut entraîner des blessures graves voire la mort.

Sections 4-6

Provide step by step installation and set-up instructions for the RMX® commercial door operator. Each section is written such that it must be followed in a step by step order to complete a successful installation.

Sections 7-8

Detail important features and troubleshooting information for typical installation and normal operations that may occur.

Sections 9-11

Provide related information on service and maintenance items, operator drawings for use in troubleshooting and service activities, along with important warranty and returned goods policy information.

Section 2: Safety Information & Instructions

▲ WARNING

Overhead Doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injuries, your safety and the safety of others depend on you reading the information in this manual. If you have any questions or do not understand the information presented, call your nearest service representative. For the number of your local Overhead Door Dealer, call 800-929-3667, and for Overhead Door Factory Technical Advice. call 800-275-6187.

In this Manual, the words Danger, Warning, and Caution are used to stress important safety information. The word:

A DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION indicates a potentially hazardous situation which, if not avoided, may result in injury or property damage.

The word **NOTE** is used to indicate important steps to be followed or important considerations.

POTENTIAL HAZARD	EFFECT	PREVENTION
MOVING DOOR	AWARNING Could result in Serious Injury or Death	Do Not operate unless the doorway is in sight and free of obstructions. Keep people clear of opening while door is moving. Do Not allow children to play with the door operator. Do Not change operator control to momentary contact unless an external reversing means is installed. Do Not operate a door that jams or one that has a broken spring
ELECTRICAL SHOCK	AWARNING Could result in Serious Injury or Death	Turn off electrical power before removing operator cover. When replacing the cover, make sure wires are not pinched or near moving parts. Operator must be electrically grounded.
HIGH SPRING TENSION	WARNING Could result in Serious Injury or Death	Do Not try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as, wood block, steel bracket, cable or any other structure or like item. Repairs and adjustments must be made by a trained service representative using proper tools and instructions.

IMPORTANT

READ PRIOR TO ANY DOOR OPERATION

- 1. Read manual and warnings carefully.
- Keep the door in good working condition. Periodically lubricate all moving parts of door.
- 3. If door has a sensing edge, check operations monthly. Make any necessary repairs to keep it functional.
- 4. AT LEAST twice a year, manually operate door by disconnecting it from the operator. The Door should open and close freely. If it does not, the door must be taken out of service and a trained service representative must correct the condition causing the malfunction.
- 5. The Operator Motor is protected against overheating by an internal thermal protector. If the operator ceases to function because motor protector has tripped, a trained service technician may need to correct the condition which caused the overheating. When motor has cooled, thermal protector will automatically reset and normal operation can be resumed.
- In case of power failure, the door can be operated manually by pulling the release cable to disconnect the operator drive system.
- 7. Keep instructions in a prominent location near the pushbutton.

Section 2: Safety Information & Instructions

A AVERTISSEMENT

Les portes basculantes sont de gros objets lourds qui fonctionnent à l'aide de ressorts soumis à une haute tension et de moteurs électriques. Dans la mesure où les objets en mouvement, les ressorts sous tension et les moteurs électriques peuvent entraîner des blessures, votre sécurité et celle des autres exigent que vous preniez connaissance des informations stipulées dans ce manuel. Si vous avez des questions ou si vous ne comprenez pas les informations ci-incluses, veuillez contacter le représentant de service le plus près. Pour obtenir le numéro du revendeur Overhead Door local, appelez le +1 (800) 929-3667, et pour obtenir des conseils techniques de l'usine Overhead Door, appelez le +1 (800) -275-6187.

Dans ce manuel, les mots Danger, Avertissement, et Attention sont utilisés pour faire ressortir d'importantes informations relatives à la sécurité. Le mot :

A DANGER signale une situation dangereuse imminente qui si elle n'est pas évitée, risque d'entraîner des blessures graves, voire mortelles.

AVERTISSEMENT signale une situation potentiellement dangereuse qui, si elle n'est pas évitée, risque d'entraîner la mort ou des blessures graves.

ATTENTION signale une situation potentiellement dangereuse qui, si elle n'est pas évitée, risque d'entraîner des blessures ou des dommages matériels.

Le terme **REMARQUE** est utilisé pour signaler les étapes importantes à suivre ou d'importants éléments à prendre en considération.

DANGER POTENTIEL	EFFET	PRÉVENTION
PORTE EN MOUVEMENT	AVERTISSEMENT Pourrait entraîner des blessures graves voire la mort	Utiliser uniquement si la porte est en vue et libre de tout obstacle. Ne laisser personne se tenir dans l'ouverture de la porte pendant qu'elle est en mouvement. Ne pas permettre aux enfants de jouer avec l'opérateur de la porte. Ne pas modifier la commande de l'opérateur à contact momentané à moins qu'un moyen d'inversion externe soit installé. Ne pas faire fonctionner une porte qui bloque ou dont le ressort est cassé.
CHOC ÉLECTRIQUE	AVERTISSEMENT Pourrait entraîner des blessures graves voire la mort	Couper le courant avant d'enlever le couvercle de l'opérateur. Lorsque le couvercle doit être remplacé, s'assurer que les fils ne sont ni coincés ni près des pièces mobiles. L'opérateur doit être correctement mis à la terre.
TENSION ÉLEVÉE DU RESSORT	AVERTISSEMENT Pourrait entraîner des blessures graves voire la mort	Ne pas essayer d'enlever, réparer ni ajuster les ressorts ou toute autre pièce à laquelle le ressort de la porte est attaché, y compris blocs de bois, supports en acier, câbles ou autres articles semblables. Les réparations et les réglages doivent être effectués par technicien qualifié qui se sert d'outils appropriés et qui respecte les instructions.

Job Site Issues to Consider/Concerns

The following list of items should be considered prior to selecting an operator for a given job site.

1-Available power supply. 2-Type of door. 3-Potential operator mounting obstructions. Items to consider include, but are not limited to: side room, room above door shaft, room below door shaft, available mounting surface integrity, power supply location, and convenient chain hoist and release cable positioning. 4-Size of door for appropriate operator torque and door travel speed selection. 5-Operator mounting environment. Items to consider include operator location, dampness of location, dustiness of the location and corrosiveness of the location. 6-Door activation needs/requirements. Examples include 3 button control stations, 1 button control stations, radio controls, pull cords, loop detectors, photoelectric controls, key switches, etc. See "Entrapment Protection" section below. 7-Interlock switches are required under certain conditions for doors with pass doors and door locks. See Section 5.7 below. 8-Accessory equipment. Examples include reversing edges and/or photocell beams, which are required for doors set to operate as momentary contact, auxiliary control relays, warning lights, etc.

See "Entrapment Protection" section below.

▲ ENTRAPMENT PROTECTION

The installation of a fail safe external reversing device (such as a monitored reversing edge or photocell system, etc.) is required on all momentary contact electronically operated commercial doors. If such a reversing device is not installed, the operator will revert to a constant contact control switch for operation (Closing only). The Reversing Devices currently UL Approved are:

- 1) MillerEdge ME and MT series monitored edge sensors used in combination with Timer-Close Module P/N OPABTCX.S
- 2) MillerEdge ME and MT series monitored edge sensors used in combination with MillerEdge Interface Module OPAKMEIGX.S. (Direct connect through STB inputs.)
- 3) MillerEdge Wireless monitored edge sensor OPAKMMWE.S.
- 4) Residential Safe-T-Beam® Monitored Photocells P/N 37221R (OSTB-BX) and 38176R.S (includes extension brackets).
- 5) Series II Commercial Safe-T-Beam® Monitored Photocells P/N OPAKPE.S and OPAKPEN4GX.S (NEMA 4).
- 6) Monitored Retro-Reflective Photoeve P/N OPRAKRPEN4X.S

A WARNING: DO NOT apply line voltage until instructed to do so.

AVERTISSEMENT: NE PAS mettre sous tension tant que l'instruction n'est pas donnée de le faire.

A CAUTION: Check working condition of door before installing the operator. Door must be free from sticking and binding. If equipped, deactivate any door locking device(s). Door repairs and adjustments, including cables and spring assemblies MUST be made by a trained service representative using proper tools and instructions.

ATTENTION: Vérifiez l'état de fonctionnement de la porte avant d'installer l'opérateur.

La porte doit pouvoir bouger librement et ne pas coincer. Désactivez tous les dispositifs de verrouillage de la porte (si équipés). Les réparations et les réglages de porte, plus particulièrement pour les câbles et les ressorts DOIVENT être effectués par un technicien qualifié qui se sert d'outils appropriés et qui respecte les instructions.

New Features:

SuperBelt® — Features patent pending automatic self-adjusting belt tension.

ENTRAPMENT PROTECTION

The RMX® can be used with the following UL Listed entrapment devices in compliance with UL325 requirements active starting August 29, 2010. UNTIL ONE OF THESE MONITORED EXTERNAL ENTRAPMENT DEVICES IS INSTALLED, THE RMX® WILL NOT ALLOW MOMENTARY CONTACT OPERATION IN THE CLOSE DIRECTION.

LISTED DEVICES	ALLOWABLE DOOR WIDTH	
MillerEdge ME & MT series monitored edge sensors used in combination with OPABTCX.S Timer-Close Module or MillerEdge Interface Module OPAKMEIGX.S. MillerEdge Wireless monitored edge sensor OPAKMMWE.S	ANY WIDTH	
Residential Safe-T-Beams® P/N 37221R (OSTB-BX) and 38176R.S (includes ext. brkt's)	30 FFFT	
Commercial Photoeye Kit P/N OPAKPE.S and OPAKPEN4GX.S (NEMA 4)	SU FEET	
Monitored Retro-Refective Photoeye Kit P/N OPRAKRPEN4X.S	35 FEET	

RMX® Rolling Steel Door Chart (Sq. Ft.)													
RMX®	Rolling Steel Doors							Rolling	Counter Doors	Gri	lles		
	600 610/620 615/6			615/616	625				Fire Doors / Fire Shutters	650/651/652	670	671	
Max. Door	Coilaway	22GA.	20GA.	18GA.	24GA.	24GA.	22GA.	20GA	18GA	630/631/634/640/641	22GA. / Alum	Alum	Steel
Height 16ft.	256*	203	177	135	267*	125	108	90	75	N/A	ALL*	350	210

^{*} Operator must be wall mounted, order wall mount kit #111011.0001.S

IMPORTANT INSTALLATION INSTRUCTIONS WARNING-

To reduce the risk of severe injury or death:

- 1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies and other hardware before installing the operator.
- 3) Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electronically interlocked to the power unit) that are connected to the door before installing the operator.
- 4) Install the door operator at least 8 feet above the floor if the operator has exposed moving parts.
- 5) Do not connect the door operator to the power source until instructed to do so.
- **6)** Locate the control station: (a) within sight of the door, (b) a minimum of 5 feet above the floor so that small children cannot reach it, and (c) away from all moving parts of the door.
- 7) Install the Entrapment Warning Placard next to the control station and in a prominent location.
- **8)** For products having a manual release, instruct the end user on the operation of the manual release.

IMPORTANT INSTRUCTIONS D'INSTALLATION AVERTISSEMENT-

Pour réduire les risques de blessures graves ou de mort :

- 1) LIRE ET RESPECTER TOUTES LES INSTRUCTIONS D'INSTALLATION.
- 2) Installez uniquement sur une porte fonctionnant correctement et bien équilibrée. Une porte qui fonctionne mal peut provoquer des blessures graves. Demandez à un technicien qualifié d'effectuer les réparations des câbles, des ressorts et de toute autre quincaillerie avant de procéder à l'installation de l'opérateur.
- 3) Retirez toutes les cordes de traction ainsi que tous les verrous ou rendez-les inopérants (à moins qu'ils ne soient mécaniquement et/ou électroniquement interverrouillés à l'unité motrices) qui sont connectés à la porte avant de procéderà l'installation de l'opérateur.
- 4) Installez l'opérateur de la porte à 2,4 m minimum au-dessus du sol lorsque des pièces mobiles de l'opérateur sont exposées.
- 5) Ne pas raccorder l'opérateur de la porte à la source d'alimentation avant que l'instruction ne soit donnée de le faire.
- 6) Installez la station de commande : (a) en vue de la porte, (b) à 1,5 m minimum au-dessus du sol pour que les jeunes enfants ne puissent pas l'atteindre, et (c) à l'écart de toutes les pièces mobiles de la porte.
- Installez le poster d'avertissement de pincement à côté de la station de commande à un endroit bien en vue.
- 8) Pour les produits ayant un déclenchement manuel, indiquez à l'utilisateur comment déclencher manuellement.

Section 4: Installation

Front/Top of Hood

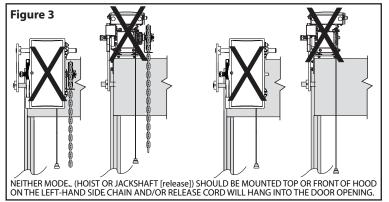
The RMX® Rolling Steel Operator can be assembled for **right-hand** mounting Top of Hood or Front of Hood

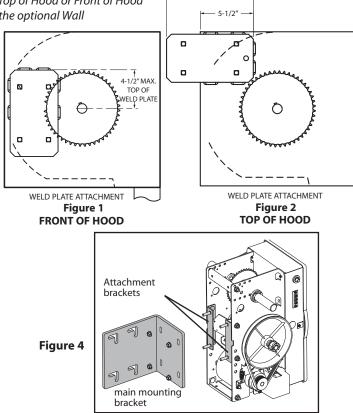
Fig. 1 & Fig. 2 . It is possible to mount the RMX® Operator on either side using the optional Wall

Mount method (See page 4.3). **Figure 3**.

NOTE: The operator output shaft extends 3-7/8" on each side of the RMX® operator frame.

- Determine operator mounting location, including desired hoist and release location and release cable routing.
- 2) Weld the Rolling Door weld plate assembly (provided) to the door headplate, A minimum of two 1" weld beads are required on each side of the weld plate for proper attachment. See Fig 1 or 2 for proper placement.
- 3) Install two attachment brackets to operator using the four 5/16"-18 X 3/4"carriage bolts and nuts provided. **Fig 4**.
- 4) Attach operator to main mounting bracket using the four 5/16"-18 X 1-1/4" carriage bolts, nuts, and lockwashers provided.





06-14

4.1

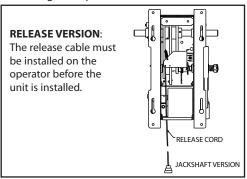
Front/Top of Hood (continued)

Attach operator assembly to weld plate using hardware provided.
 Note the position of bracket slots for proper bracket orientation. Fig 5 or 6.

NOTE: Hand tighten bracket with weld plate nuts. Adjusting the mounting plate position to tension the drive chain will be required later in the installation process.

Attach Operator to Door: Top or Front of Hood.

- 1) Attach 12 tooth sprocket to operator output shaft.
- 2) Align keyways and insert key into sprocket and output shaft keyway. Do not tighten set screw at this time.
- 3) Attach door sprocket to door shaft. Do not tighten at this time.
- 4) Assemble chain using chain master link.
- 5) Place assembled chain over door shaft sprocket and around the 12 tooth sprocket.
- 6) Raise or lower operator to remove slack from the chain. Be certain operator output shaft is parallel with door shaft.
- 7) Tighten operator mounting bracket nuts.
- 8) Tighten sprocket set screws.



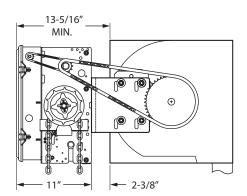
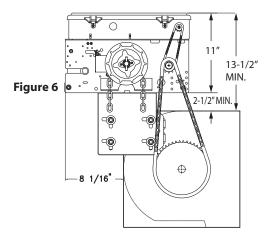


Figure 5



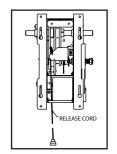
Wall Mount

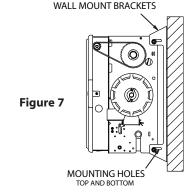
The RMX® Rolling Steel unit can be wall mounted in cases where space is critical or where it is necessary to do a left-hand mount, by using an optional "Wall Mount Kit." (P/N 111011.0001.S) **Fig. 7**.

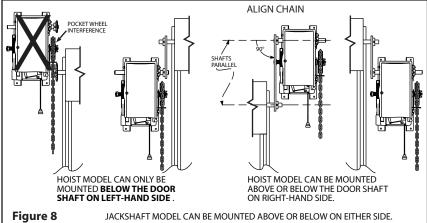
- Attach wall mount brackets to operator using the 4 mounting bolts and nuts supplied(Hand-tighten until later). Position the operator in the brackets as shown.
- 2) Attach 12 tooth sprocket to operator output shaft.
- Align keyways and insert key into sprocket and door shaft keyway. Do not tighten set screw at this time.
- 4) Attach door sprocket to door shaft. Do not tighten at this time.
- 5) Assemble chain using chain master link.
- 6) Place assembled chain over door shaft sprocket.
- 7) Raise or lower operator to remove slack from the chain. Ensure operator output shaft is parallel with door shaft.
- 8) Tighten operator mounting bracket nuts.
- 9) Align chain and secure operator to wall. Fig. 8.
- 10) Tighten operator chain sprocket set screws.
- 11) Slide operator in the wall bracket mounting holes if necessary for fine adjust of chain tension.

JACKSHAFT VERSION

The release cable must be attached to the operator before the unit is installed.







Clutch Adjustment Fig. 9

The RMX® Operators have a friction style clutch that can be adjusted.

NOTE: The clutch is intended to provide protection for the door, the operator and associated equipment. It is not intended for entrapment protection.

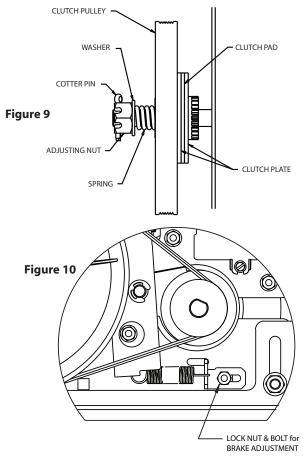
To Adjust the Clutch

- Decrease the tension on the clutch until the operator will not lift the door.
 - Turn the adjustment castle nut counter-clockwise to decrease tension and clockwise to increase tension.
- 2) Gradually increase tension until the operator will perform a complete open and close cycle without clutch slippage.
- 3) Insert a cotter pin through the adjustment castle nut and bend a leg of the cotter pin to hold it in place.

NOTE: Periodically check the system for proper clutch action. If clutch starts to slip after working properly for some time, check manual operation of door BEFORE adjusting clutch. The door may not be operating freely or the counterbalance spring may need adjusting.

Brake Adjustment Fig.10

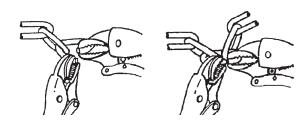
- 1) Loosen the Adjustment Bracket Lock Nut/Bolt.
- 2) Slide the Adjustment Bracket as needed to reach the desired spring tension.
 - When properly adjusted, the pivot arm should move with very little effort.
- 3) Re-tighten the Adjustment Bracket Lock Nut/Bolt.



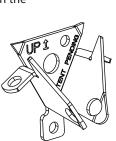
Install Chain Hoist & Keeper

- 1) Route the hand chain through the chain guide, around the pocket wheel and back through the chain guide. **Fig.11**.
- 2) Connect the hand chain ends together as shown in Fig 12. by twisting open the last link on one end of the chain, and slipping the last link on the opposite end onto the open link.
- 3) Twist open link closed again.
- 4) Mount chain keeper to wall in line with chain approximately 4 feet from floor.
- Loop chain around keeper as shown. Fig. 13. Optional Padlock not provided.
- 6) Install hoist cable. Fig. 14.

NOTE: To insure smooth operation, make sure there are no twist in the hand chain before connecting the link ends together.







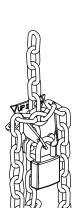


Figure 11

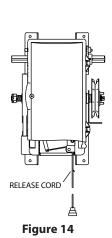


Figure 13



Section 5: Wiring

A WARNING

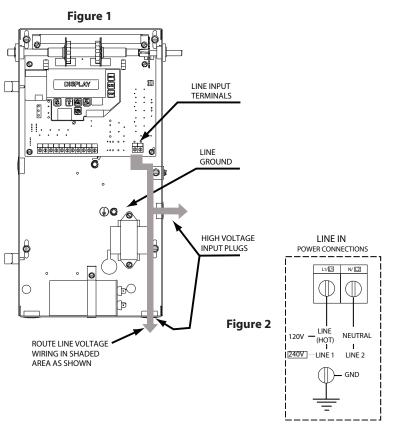
- DO NOT apply power to operator until instructed to do so.
- It is strongly recommended, and may be required by law in some areas, that line voltage wiring be performed by a qualified electrician.
- Be sure that electrical power has been disconnected from the input power wires being connected to the operator prior to handling these wires. An appropriate lock-out/ tag-out procedure is recommended.
- · Line voltage wiring must meet all local building codes.
- Make sure operator voltage, phase and frequency nameplate ratings are identical to the job site line voltage ratings.
- Input power wiring must be properly sized for the operators amperage rating located on the nameplate.
- To reduce the risk of electric shock, make sure the chassis of this unit is properly grounded.

A AVERTISSEMENT

- NE PAS mettre sous tension tant que l'instruction n'est pas donnée de le faire.
- Il est fortement recommandé voire même exigé par la loi dans certaines régions, de contacter un électricien qualifié pour l'acheminement du fil électrique.
- Assurez-vous que l'alimentation électrique a été déconnectée des câbles d'alimentation d'entrée connectés à l'opérateur avant de manipuler ces câbles. Une procédure de verrouillage/ étiquetage appropriée est recommandée.
- Le câblage au secteur doit satisfaire à tous les codes de construction locaux.
- Assurez-vous que les valeurs nominales de la plaque signalétique pour tension, phase et fréquence de l'opérateur correspondent à celles des tensions de l'alimentation sur site.
- La capacité d'entrée doit correspondre à la valeur nominale de l'ampérage des opérateurs indiquée sur la plaque signalétique.
- Pour réduire le risque de choc électrique, assurez-vous que le châssis de l'unité est correctement mis à la terre.

Line Voltage Wiring Fig. 1

- 1) Remove LINE VOLTAGE INPUT PLUG and install proper fittings and 1/2"conduit.
- 2) Route proper LINE VOLTAGE wires into operator.
- 3) Locate LINE INPUT terminals on circuit board. Using correct connectors, attach wires to LINE INPUTS, and GROUND terminal. Fig. 2.
 - · Keep low voltage and line voltage wires separate.
 - · Route all line voltage wires as shown.
 - · Plug all unused conduit holes.



Low Voltage Control Wiring (general) Fig. 3

- 1) Connect all LOW VOLTAGE control circuit wires to this side of unit using 1/2" conduit or flexible convoluted tubing.
 - · Keep low voltage and line voltage wires separate.
 - Route all low voltage control wiring as shown. This includes all control circuit wires such as wall controls, timers and single button input devices as well as radio control and safety circuit wiring. See Figs 4 through 14 in this section.
 - · Plug all unused conduit holes.

NOTE: For a detailed description of control wire terminals see Appendix B.

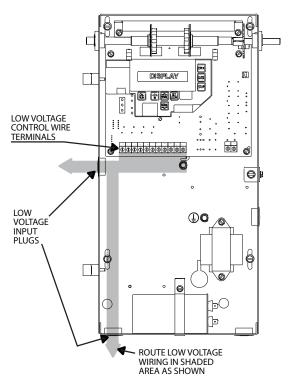
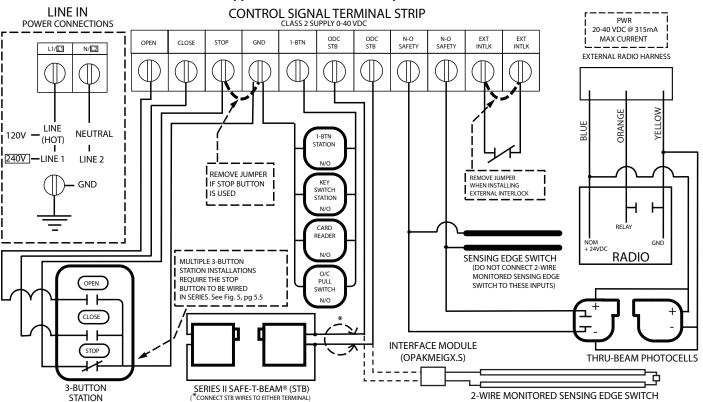


Figure 3

External Wire Diagram

See Appendix B for detailed description of terminals.



Wall Control

1) For one 3 - button installation, make connections as shown in **Fig. 4**.

AWARNING:

- Wall Control(s) must be located so that the door is within sight of the user and is far enough from the door, or postioned such that the user is prevented from coming in contact with the door while operating controls.
- Attach the Warning placard adjacent to the Wall Control. Fig. 4A.
- · Attach the Caution label adjacent to the Wall Control. Fig. 4B.

A AVERTISSEMENT:

- La ou les commandes murales doivent être situées de telle sorte que l'utilisateur puisse voir la porte et positionnées de telle sorte que l'utilisateur ne puisse pas entrer en contact avec la porte lorsqu'il se sert des commandes.
- Fixez le poster d'avertissement à côté de la commande murale. Fig. 4A
- Fixer l'étiquette de mise en garde (Attention) à côté de la commande murale. Fig. 4B.

A WARNING: Before momentary contact control can be used on the CLOSE button, a monitored external reversing device such as a photocell system or sensing edge switch must be used. See pages 5.8-5.10 for installation of entrapment protection devices.

AVERTISSEMENT: Avant d'utiliser la commande à contact momentané sur le bouton FERMETURE, un dispositif d'inversion externe surveillée tel qu'un système de cellule photoélectrique ou un commutateur de détection de bord doit être utilisé. Voir l'installation des dispositifs de protection contre le coincement en pages 5.8-5.10.



Entrapment Warning Placard **Figure 4A**

OPEN CLOSE STOP GND 1-8TN COC COC STB SHETY SAFETY MTTK WITK

NOTE:
JUMPER BETWEEN STOP
AND GND TERMINALS
MUST BE REMOVED

Figure 4

CONTROL SIGNAL TERMINAL STRIP

CAUTION

This door is operated by a limited-duty operator.

To prevent the motor protector from tripping, do not exceed 15 cycles of opening and closing per hour.

NOT FOR RESIDENTIAL USE **ATTENTION**

Cette porte est actionnée par un opérateur de service limité. Pour éviter que la protection du moteur ne se déclenche pas, ne pas dépasser 15 cycles d'ouverture et de fermeture à l'heure.

NON DESTINÉ POUR USAGE RÉSIDENTIEL.

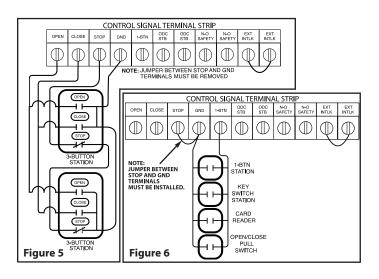
Figure 4B

Wall Control (cont.)

- 2) For a multiple 3 button installations, make connections as shown in **Fig. 5**.
- 3) For single button accessory controls, make connections as shown in **Fig. 6**.

NOTE: If an External STOP button is NOT being installed, a jumper wire must be installed between the "STOP" AND "GND" terminals as shown in **Fig. 6**.

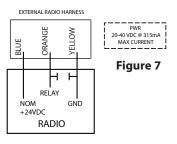
NOTE: Long Distance Relay Kit wiring is not required for long distance control runs and should not be used

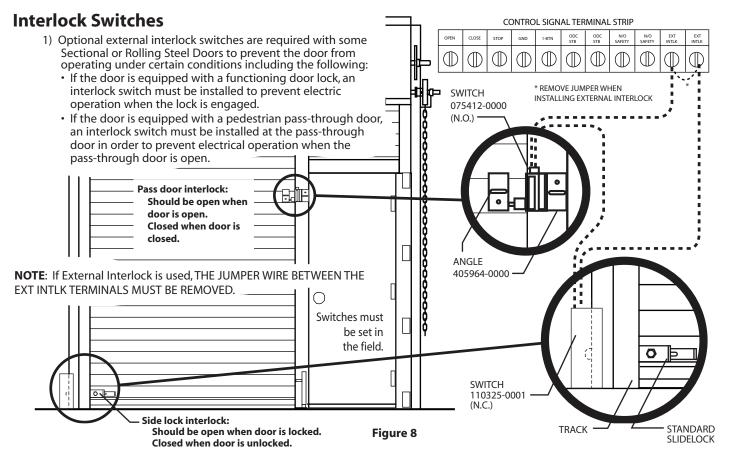


Radio Control Installation

1) For 3-wire radio control installation, make connections as shown in **Fig. 7**.

NOTE: An External Harness supplies 20-40VDC. Radios used must be compatible with this voltage range.





Photocell Wiring

Series II Safe-T-Beam® Monitored Photocells

1) Monitored SERIES II (STB) photocells (P/N OPAKPE.S) and Residential Safe-T-Beam® Monitored Photocells from Overhead Door® (P/N 37221R & 38176R.S). Fig. 9. Wiring to these photocells can be be connected to either terminal (they are not polarity sensitive.) (Troubleshooting in Section 8)

NOTE: Monitored Sensing device must be installed or unit will be Constant Contact Close.

AWARNING: Actuating the operator by using constant contact on the CLOSE button will override non-functioning external reversing devices, including photocells.

AVERTISSEMENT: L'activation de l'operateur en utilisant un contact constant sur le bouton FERMER annulera les dispositifs d'inversions externes, y compris les cellules photoelectriques.

- 2) **To Mount Photocells:** (Kit includes detailed Instructions).
 - Determine location for mounting. They do not need to be directly adjacent to the door but must be somewhere along the wall where there will be an unobstructed line between them. **Fig. 11.**
 - They must extend out away from the wall sufficiently that no door hardware breaks the plane of the photo-beam.

AWARNING: Photocell systems provide entrapment protection when mounted near the doorway in such a way that the lower portion of an individual's leg will break the photocell beam during normal walking conditions.

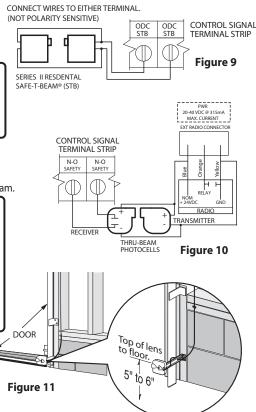
AVERTISSEMENT: Les systèmes de cellules photoélectriques fournissent une protection contre le coincement pour le montage à proximité de la porte de manière à ce que la partie inférieure de la jambe d'un individu ne puisse pas rompre le faisceau de la cellule photoélectrique lors de passages normaux par la porte.

Commercial Non-Monitored Photocells

 Nominal 24 Volt DC Commercial photocells with normally open contacts can be connected as shown in Fig. 10.

NOTE: Blue wire supplies 20 – 40VDC. Photocells used must be compatible with this voltage range.

NOTE: If no voltage is present at Blue wire, check fuse F-1 on Control board.



Sensing Edge Installation

Figure 13 shows an example of a typical sensing edge installation. Left hand side is shown but right hand is a mirror image of this.

- 1A) If the wiring from the sensing edge enclosure to the operator is a coiled cord or 2 wire jacketed cord:
 - Install junction box 12" above the center of the door opening on same side as sensing edge enclosure.
 - Secure one end of cord to junction box using a cable clamp.
- 1B) If connection is to be made through a take up reel cord:
 - Install on same side as sensing edge enclosure and above door opening and slightly to the side.
 - Install junction box adjacent to take up reel and route the stationary cord from the reel to the box and secure with a cable clamp.

NOTE: DO NOT USE TAKE UP REEL IF INSTALLING A 2 WIRE MONITORED EDGE.

- 2) Secure other end of cord (straight, coiled or reel) to sensing edge enclosure using a cable clamp.
- 3) Connect wires of cord to sensing edge using wire nuts or other suitable wire connectors.
- Run a straight 2 wire cord from the junction box (Step 1) to the operator electrical box.
 Secure using cable clamp on each end.
- Secure using cable clamp on each end.
 Join wires in cord from operator to wires in cord from junction box using wire nuts or
- other suitable wire connectors.
- 6A) **Non-Monitored** sensing edge connects to terminal strip on main board using (N-O SAFETY) terminals. See **Fig. 12A.**
- 6B) **Monitored** sensing edge connects to Timer-Close Module terminals (MON EDGE and GND) or to (ODC STB) terminals on main board through a Miller Edge Interface Module as shown in **Fig. 12B**.

WARNING: Actuating the operator using constant contact on the CLOSE button will override non-functioning external reversing devices, including sensing edges.

AVERTISSEMENT: L'activation de l'opérateur avec un contact constant sur le bouton FERMER annulera les dispositifs de renversement externes non fonctionnels, y compris les systèmes de détection des bords.

Continued on next page.

Figure 12A

NOTE: Non-monitored
Pneumatic or Electric Sensing
Edge can be connected
directly to these terminals.
DO NOT connect a 2-wire
Monitored Sensing Edge
to these terminals.

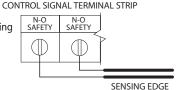
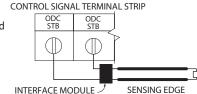


Figure 12B

NOTE: 2-wire Monitored Sensing Edge must be connected through the MillerEdge Interface Module.



TIMER-CLOSE MODULE TERMINAL STRIP

NOTE: Monitored 2-wire Sensing Edge can also be used in combination with a Timer-Close Module.

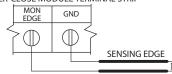
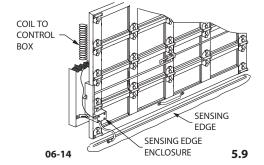


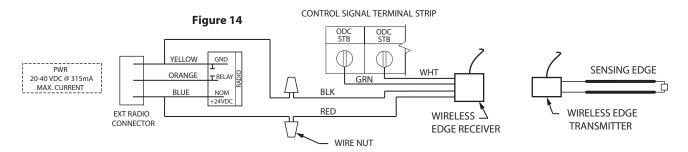
Figure 13



Sensing Edge Installation (continued)

- Operate the door to make certain cord is free to travel and does not become snared during door opening or closing.
 - Check sensing edge for proper operation.
- 8) While the door is closing actuate the sensing edge to verify the door reverses to open limit.

Figure 14 shows the connection of OPAKMMWE.S MEL Miller Edge Monitored Wireless Sensing Edge.



A WARNING: To obtain proper operation of the MEL edge sensor, each transmitter/receiver set must be set to a unique address. Follow instructions provided with the Miller Edge MEL kit to set the address.

AVERTISSEMENT: Pour obtenir un fonctionnement correct du capteur de bord MEL, réglez chaque ensemble émetteur/récepteur sur une adresse unique. Suivez les instructions fournies avec le kit Miller Edge MEL pour définir l'adresse.

Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

WARNING-

To reduce the risk of severe injury or death:

- 1) READ AND FOLLOW ALL INSTRUCTIONS.
- 2) Never let children operate or play with door controls. Keep the remote control (where provided) away from children.
- Personnel should keep away from a door in motion and keep the moving door in sight until it is completely closed or opened. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR.
- 4) Test the door's safety features at least once a month. After adjusting either the force or the limit of travel, retest the door operator's safety features. Failure to adjust the operator properly may cause severe injury or death.
- 5) For products having a manual release, if possible, use the manual release only when the door is closed. Use caution when operating the release while the door is open. Weak or broken springs may cause the door to fall rapidly, causing severe injury or death.
- 6) KEEP DOOR PROPERLY OPERATING AND BALANCED. See Door Manufacturer's Owner's Manual. An improperly operating or improperly balanced door could cause severe injury or death. Have only trained door systems technicians make repairs to cables, spring assemblies, other hardware and any wooden blocks or like items to which they may be attached.
- 7) SAVE THESE INSTRUCTIONS.

CONSIGNES DE SÉCURITÉ IMPORTANTES AVERTISSEMENT-

Pour réduire les risques de blessures graves ou de mort :

- 1) LIRE ET RESPECTER TOUTES LES INSTRUCTIONS.
- 2) Ne jamais permettre aux enfants d'actionner ni de jouer avec les commandes de la porte. Tenir les télécommandes (si fournies) hors de la portée des enfants.
- 3) Le personnel doit se tenir à l'écart d'une porte en mouvement et garder bien en vue une porte en mouvement jusqu'à ce qu'elle soit complètement fermée ou ouverte. PERSONNE NE DOIT TRAVERSER LA TRAJECTOIRE D'UNE PORTE EN MOUVEMENT.
- 4) Testez les fonctionnalités de sécurité de la porte au moins une fois par mois. Après avoir réglé la force ou la limite de la course, retestez les éléments de sécurité de l'opérateur de la porte. Un mauvais réglage de l'ouvre-porte peut entraîner des blessures graves voire la mort.
- 5) Pour les produits ayant un déclenchement manuel, dans la mesure du possible, utilisez le déclenchement manuel uniquement lorsque la porte est fermée. Prenez toutes les précautions nécessaires lors de l'utilisation du déclenchement manuel alors que la porte est ouverte. Des ressorts faibles ou brisés peuvent faire descendre la porte rapidement ce qui peut entraîner des blessures graves voire la mort.
- 6) VEILLER À CE QUE LA PORTE SOIT CORRECTEMENT ÉQUILIBRÉE ET FONCTIONNE BIEN. Consultez le manuel de l'utilisateur du fabricant de la porte. Une porte déséquilibrée ou fonctionnant incorrectement pourrait entraîner de graves blessures voire la mort. Seuls des techniciens formés sur systèmes de portes peuvent effectuer des réparations aux câbles, aux ressorts, aux autres matériels et aux blocs de bois ou éléments semblables auxquels ces éléments peuvent être attachés.
- 7) CONSERVER CES CONSIGNES.

Section 6: Operator Setup Procedure

Control Panel

These operators include a full function control panel including a liquid crystal display (LCD), calibration keys and Open, Close and Stop keys for on board operator control. See **Fig. 1**. The open, close and stop keys function as a 3-button wall control. The Display will show current operator conditions and calibration information. Due to limited character space, some displays will be abbreviated. See Appendix C (pgs.10.8-10.10) for full display descriptions.

Operator includes a non-volatile memory. The unit will remember all calibration settings plus error code and run code logs, if power is removed from unit.

NOTE: During Setup, refer to Caution Label for limited use (pictured on page 5.5)

DANGER: After power is supplied to the operator, **Do Not** make contact with components inside the control panel except for the Keypad Keys. **Fig. 1**.

ADANGER: Après avoir mis l'opérateur sous tension, **NE PAS** entrer en contact avec des composants à l'intérieur du panneau de commande, sauf pour les touches du pavé numérique. **Fig. 1.**

AFTER WIRING HAS BEEN COMPLETED, TURN ON POWER TO THE OPERATOR.

Control Operating Modes

Operator control boards operate in two modes: Run Mode and Calibration Mode. The control board should normally operate in the Run Mode. The operator is calibrated in Calibration Mode.

With the operator standing idle

PRESS CAL/RUN TO TOGGLE BETWEEN OPERATING MODES.

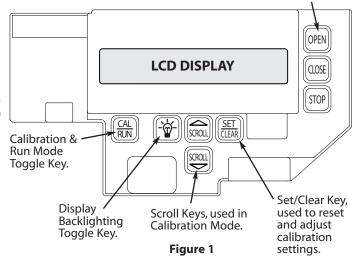
- The first display in calibration mode is "open mode > ***

 (*** = current operating mode).
- Display in run mode will be one of the condition codes listed in Appendix C.

NOTE: The CAL/RUN key will not toggle between operator modes

while the operator is running. www.overheaddoor.com

Operation Keys, operates unit like a 3-button wall station.



AWARNING: DO NOT calibrate operator or operate door unless doorway is in sight and free obstructions. Door will move during setup. Keep people clear of opening while door is moving.

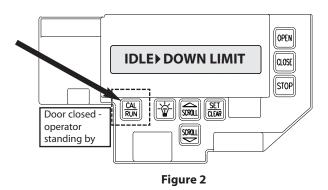
AVERTISSEMENT: Calibrer l'opérateur et utiliser la porte uniquement si la porte est en vue et libre de tout obstacle. La porte se déplacera pendant la programmation. Ne laisser personne se tenir dans l'ouverture de la porte pendant qu'elle est en mouvement.

06-14 6.1

Setting Constant Contact

These operators are shipped from the factory with both open and close operating modes set to constant contact – stop (C – STP) If your unit is set to Momentary Contact (MOM) Open and/or CLOSE, reset the operating modes by taking the following steps:

- 1) Press CAL/RUN to enter calibration mode. Fig. 2.
- 2) Press SET/CLEAR until display reads "OPEN MODE > C-STP." Fig. 3.
- 3) Press SCROLL (DN) until display reads "CLOSE MODE." Fig. 4.



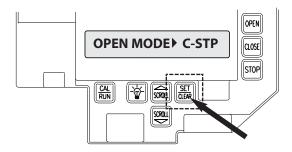


Figure 3

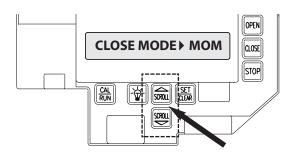


Figure 4

Continued on next page.

Setting Constant Contact (cont.)

- Press SET/CLEAR until display reads "CLOSE MODE > C-STP."
 Fig. 5.
- **AWARNING:** If a monitored external reversing device is not used, then the operator will run Constant Contact Close. Verify close mode is set to "C-STP" and NOT "C-REV" or "MOM" before continuing.
- A AVERTISSEMENT: Si un dispositif d'inversion externe contrôlé n'est pas utilisé, l'opérateur enclenchera la fermeture au contact constant. Vérifier que le mode de fermeture est réglé sur « C-STP » et NON PAS « C-REV » ou « MOM » avant de continuer.

5) Press CAL/RUN to return to run mode.

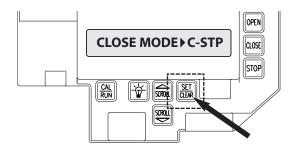


Figure 5

Setting Limit Travel

1) Engage door to Operator.

NOTE: Verify open and close operating modes are set to constant contact – Stop (C-STP). See page 6.2 for details.

- 2) Press CAL/RUN until operator is in run mode.
- 3) Press and hold OPEN Key on Control Panel. Run door to desired open position, release OPEN Key.
- 4) Push LIMIT LOCKING BAR away from Limit Sensors and turn Open Limit Travel Nut until travel nut arrow and open limit sensor arrow are aligned and the display reads "IDLE>UP LIMIT."
- 5) Release the LIMIT LOCKING BAR and make sure bar seats completely into both Travel Nuts. **Fig. 6**.
- 6) Press and hold CLOSE key on Control Panel. Run door to within 2" above floor, release Close button.

NOTE: If the operator stops while trying to set limits and the display reads "GDO shutdown>MRT / Hit key to reset," see page 6.7 "Resetting Max Run Timers".

- 7) Push LIMIT LOCKING BAR away from Limit Sensors and turn Close Limit Travel Nut until travel nut arrow and close limit sensor arrow are aligned and the display reads "IDLE > DOWN LIMIT." Fig. 7.
- 8) Run door fully Open and Closed with Open & Close Keys on control panel and make final adjustments as necessary to make sure that door opens fully and closes no more than 2" above the floor.

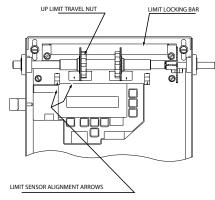


Figure 6

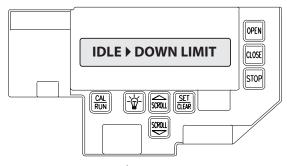


Figure 7

Setting Limit Overrun

A WARNING: The Limit Overrun will override external reversing devices, including photocells and sensing edges or reversing edges. Therefore, any externally connected devices will be disabled during that portion of the door travel controlled by the Limit Overrun function.

The Down Limit Overrun function should be used to close the door no more than the final 2".

A AVERTISSEMENT: La fonction de

dépassement de limite annulera les dispositifs de renversement externes, y compris les cellules photoélectriques et des systèmes de détection ou d'inversion aux bords. En conséquence, tous les dispositifs externes connectés seront désactivés pendant la partie de la course de la porte qui est contrôlée par la fonction de dépassement de limite.

La fonction de dépassement de limite inférieure doit être utilisée pour fermer la porte uniquement aux derniers 5 cm.

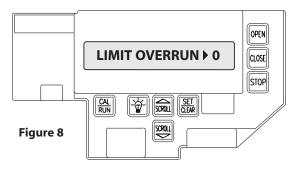
- A) The Limit Overrun setting is a matter of trial and error. The goal is to adjust the Limit Overrun until an appropriate seal is obtained between the bottom edge of the door and the floor.
- B) The Limit Overrun setting can be varied between 0 and 9. 0 disables the Limit Overrun so that the door stops at the down limit switch setting. 9 causes the greatest amount of door travel beyond the limit switch setting. Door should close gently with light tension on door cables, or minimal stacking on rolling steel slats.
 - 1) Press CAL-RUN to enter calibration mode
 - 2) Press scroll (▼) until the display reads "LIMIT OVERRUN >(0-9)." Fig. 8.

- 3) Press SET/CLEAR until the display reads the desired value.
- 4) Press the OPEN key to open the door a few feet, then release
- 5) Press the CLOSE key to close the door and hold until the operator stops.
- 6) Check the door seal and repeat steps 3-5 until the appropriate seal is obtained between the door and the floor.

▲ CAUTION: If proper seal cannot be obtained at a setting of 9, Reset the Limit Overrun back to 0 and reset the Down Limit position as described on 6.4. Then adjust the Limit Overrun as instructed above.

ATTENTION: Si une adhésion appropriée ne peut être obtenue à un réglage de 9, réinitialiser le dépassement de limite à 0 puis la position de déplacement de la limite inférieure selon les instructions de la page 6.4. Régler ensuite le dépassement de limite tel gu'indiqué ci-dessus.

7) Press CAL-RUN to return to run mode.



Monitored Reversing Devices

ODC Safe-T-Beams® (OPTIONAL)

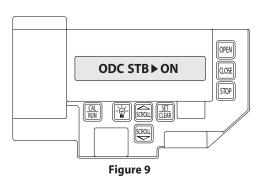
- 1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
- 2) Press SCROLL (up or down) until display reads "ODC STB>ON" or "ODC STB>OFF" **Figure 9.**
- 3) Press SET/CLEAR key to toggle between ON and OFF.
- 4) Press SCROLL (up or down) to shift to a new function and lock setting.
- 5) Press CAL/RUN to return to run mode.

NOTE: Installation of Series II Monitored Photocells DOES NOT make the RMX® unit legal for residential use. The Overhead Door Corporation strictly prohibits any installation of an RMX® unit in any residentially zoned construction.

AWARNING: Photocell systems provide entrapment protection when mounted near the doorway in such a way that the lower portion of an individuals leg will break the photocell beam during normal walking through the doorway.

AAVERTISSEMENT: Les systèmes de cellules

photoélectriques fournissent une protection contre le coincement s'ils sont installés à proximité de la porte de manière à ce que la partie inférieure de la jambe d'un individu puisse rompre le faisceau de la cellule photoélectrique lors de passages normaux par la porte.



Current UL Approved Monitored Reversing Devices

- 1) MillerEdge ME and MT series monitored edge sensors used in combination with Timer-Close Module P/N OPABTCX.S.
- MillerEdge ME and MT series monitored edge sensors used in combination with MillerEdge Interface Module OPAKMEIGX.S. (Direct connect through STB inputs).
- 3) MillerEdge Wireless monitored edge sensor OPAKMMWE.S.
- 4) Residential Safe-T-Beam® Monitored Photocells P/N 37221R (OSTB-BX) and 38176R.S (includes extension brackets)
- 5) Series II Commercial Safe-T-Beam® Monitored Photocells P/N OPAKPE.S and OPAKPEN4GX.S (NEMA 4).
- 6) Monitored Retro-Reflective Photoeye P/N OPRAKRPEN4X.S

Max Run Timer

This operator will automatically set its maximum run timers (MRT) when the unit is run two full cycles from limit to limit, without stopping, in the run mode. The Max Run Timer is a feature that prevents the unit from running continuously in the event of a slipping clutch, etc.

NOTE: The MRT's are set to the time required to run from one limit to the other, plus 5 seconds (nominal). When the MRT is exceeded, the operator shuts down.

The operator will not respond to any command until the error is cleared by pressing one of the calibration keys or by cycling power to the unit.

Resetting the Max Run Timers

The Maximum Run timers can be reset using this procedure:

- 1) Press CAL/RUN to enter calibration mode.
- 2) Press Scroll (DN) until display reads "MAX RUN TMR > SET."
- Press SET/CLEAR until display reads "MAX RUN TMR > CLEAR."
 FIG. 10.
- 4) Press CAL/RUN to return to run mode.
- 5) Run the door two full cycles from limit to limit, without stopping, in the run mode.

NOTE: The Max Run Timers must be reset each and every time the travel limits are adjusted.

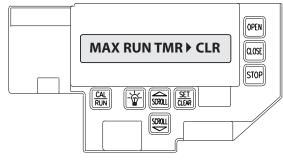


Figure 10

ACAUTION: The MID-STOP feature must be turned off in order to properly set the Max Run Timer.

ATTENTION: La fonction MID-STOP doit être désactivée afin de régler correctement la minuterie de course maximum.

Setting the Mid-Stop

The RMX® Operator includes a programmable Mid-Stop. This feature allows the operator stop at a user selectable point when opening. It is used when operating very tall doors that only open to their full height occasionally. The Mid-Stop does not effect the operator when closing.

1) To operate door to full open position from mid-stop, press open button again.

NOTE: Setting of the MID-STOP should only be performed AFTER Travel Limit and Max Run Timer settings have been made.

To set the Mid-Stop:

- 1) Press CAL/RUN to enter calibration mode.
- 2) Press the CLOSE key to close the door to the down limit.
- Press SCROLL (DN) until the display reads "MID-STOP > CLEAR."
 Fig. 11.

NOTE: If the display reads MID-STOP > SET at this point, first clear the MID-STOP as described below then repeat steps 1-3 and continue.

- 4) Press the OPEN key to open the door and release the key when the door is at the desired Mid-Stop height.
- 5) Press the SET/CLEAR until the display reads "MID-STOP > SET."
- 6) Press CAL/RUN to return to run mode.

To clear the Mid-Stop:

- 1) Press CAL/RUN to enter calibration mode.
- 2) Press SCROLL (DN) until the display reads MID-STOP > SET.
- 3) Press SET/CLEAR until the display reads MID-STOP > CLR
- 4) Press CAL/RUN to return to run mode.

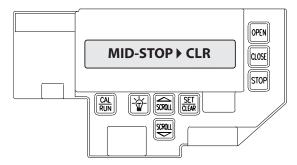


Figure 11

Changing Open and Close Modes

NOTE: Once the travel limit and safety modes have been set, the OPEN and CLOSE modes may be set for Momentary Contact if desired.

NOTE: The radio control input will not operate when the open or close mode is set in the Constant Contact mode. Operating modes affect all control inputs and keys.

To set the OPEN mode: Fig. 12

- 1) Press CAL/RUN to enter the calibration mode.
- 2) Press SCROLL (▲) or (▼) until display reads "OPEN MODE > ."
 This displays current setting.
- 3) Press SET/CLÉAR until the display reads the desired operating mode:
 - C-STP = Constant contact is réquired to open door. Door will stop if button or key is released before operator reaches its limit.
 - MOM = Momentary contact will cause door to open to limit.
- 4) Press CAL/RUN to return to run mode.

AWARNING: Before momentary contact control can be used on the CLOSE button, a monitored external reversing device such as a photocell system or sensing edge switch must be used. See pages 5.8-5.10 for installation of entrapment protection devices.

AVERTISSEMENT: Avant d'utiliser la commande à contact momentané sur le bouton FERMETURE, un dispositif d'inversion externe surveillée tel qu'un système de cellule photoélectrique ou un commutateur de détection de bord doit être utilisé. Voir l'installation des dispositifs de protection contre le coincement en pages 5.8-5.10.

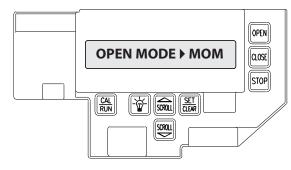


Figure 12

Continued on next page.

Changing Open and Close Modes (cont.)

To set the CLOSE mode: Fig. 13.

- 1) Press CAL/RUN to enter the calibration mode.
- Press SCROLL (▲) or (▼) until display reads "CLOSE MODE > ".
 This displays current setting.
- 3) Press SET/CLEAR until the display reads the desired operating mode:
 - C-STP = Constant contact is required to close door. Door will stop if button or key is released before operator reaches its limit.
 - C-REV = Constant contact is required to close the door. Door will reverse automatically if close button or key is released before door reaches down limit.
 - MOM = Momentary contact will cause door to close to limit.
- 4) Press CAL/RUN to return to run mode.

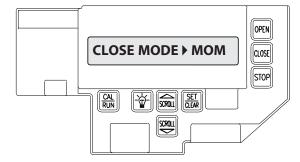


Figure 13

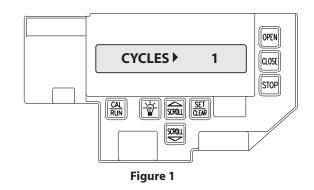
Section 7: Special Operator Features

Operator Cycle Count Fig. 1

 RMX^{\otimes} operators include a built-in cycle counter that store the count with or without power to the operator.

To view the Cycle Count:

- 1) Press CAL/RUN to enter calibration mode.
- Press SCROLL (DN) or (UP) until display reads "CYCLES > ."
 This will display current cycle count.
- 3) Press CAL/RUN to return to run mode.



Circuit Board Firmware Version Fig. 2

RMX® operators can display the version number of the firmware used in the on-board micro-controller.

To view this version number:

- 1) Press CAL/RUN to enter calibration mode.
- Press SCROLL (DN) or (UP) until the display reads "FIRMWARE > ."
 This will display the current firmware version number.
- 3) Press CAL/RUN to return to run mode.

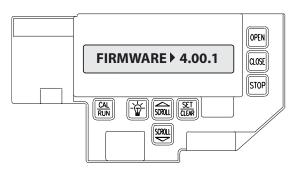


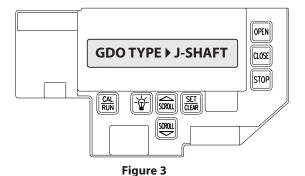
Figure 2

Operator Type Fig. 3

RMX® operators are available for use in jackshaft or trolley configurations. The same control board is used for either configuration, however the control board must be set for the appropriate GDO configuration. A board set for trolley mode will not work in a jackshaft operator and vice-versa.

NOTE: The GDO type is factory set. The installer should not have to set this feature. However, if the GDO type is inadvertently changed, or if a board needs to be replaced in the field, follow these instructions to set GDO type.

- 1) Press CAL/RUN to enter calibration mode.
- Press SCROLL (DN) or (UP) until display reads "GDO TYPE >."
 This will display the current GDO type.
- 3) Press SET/CLEAR until display indicates correct GDO type (J-SHAFT or TROLLEY)
- 4) Press CAL/RUN to return to run mode.



Section 8: Troubleshooting

Display Operation in Run Mode

RMX® operators display their status on the integral display. Each time the operator runs, stops, reverses or refuses to run, the display will indicate why the action did, or did not, take place.

Once an error code has been generated, the RMX® operator will continue to display the error code while the operator is not running. This error code can be cleared by pressing the STOP button or STOP key on the keypad. The error code will automatically clear when the operator stops at the down limit. Error codes will continue to be stored in the RMX® operator's Error Code Memory after they have been cleared from the display in the Run Mode.

Error Codes

To aid in troubleshooting problems, RMX® operators include an error code memory that stores the last 10 error events. These codes are stored with or without power. The last error code detected is also displayed on the LCD until the stop button or key is pressed or the operator stops at the down limit.

The error code memory stores the last 10 error codes in sequence. Once 10 codes are stored, the oldest code is erased to make room for the newest code. These codes are displayed in calibration mode. The display will flash the number of the error code and the 2-digit error code followed by a description of the error code. **Fig. 1 & 2**.

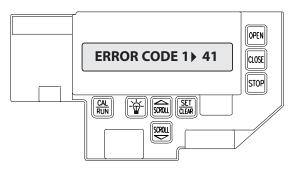


Figure 1

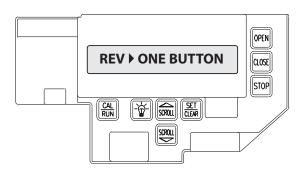


Figure 2

Error Codes (cont')

To view the error code memory: (Fig. 1 & 2)

- 1) Press CAL/RUN to enter calibration mode.
- 2) Press SCROLL (UP) or (DN) until display reads "FRROR CODE 1 >."
 - The display will begin flashing the error code number and 2-digit error code followed by its description.
 - Reminder: Error code number 1 is the latest code generated.
- 3) Press SET/CLEAR. The display will now read "ERROR CODE 2 >."

 (This is the error code which was generated before error code 1)
- 4) Repeat step 3 until all 10 error codes have been displayed or move on to step 5 when ready.
- 5) Press CAL/RUN to return to run mode.

NOTE: For all error codes see Appendix C, Sections 10.9-10.10.

Run Codes

RMX® operators also include a run code memory that stores the last 10 run events. These codes are stored with or without power. Each time the operator runs or stops, it generates a code that it stores in this memory (Why the operator ran or stopped). Used together with the error code memory, it becomes a powerful troubleshooting aid.

The run code memory stores the last 10 error codes in sequence. Once 10 codes are stored, the oldest code is erased to make room for the newest code. These codes are displayed in calibration mode. The display will flash the number of the run code and the 2-digit run code followed by a description of the run code. **Fig. 3 & 4**.

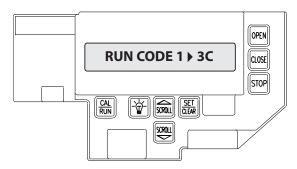
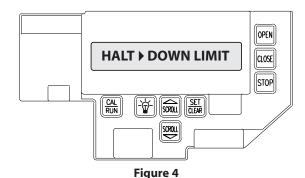


Figure 3



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Run Codes (cont')

To view the run code memory: (Fig. 3 & 4)

- 1) Press CAL/RUN to enter calibration mode.
- 2) Press SCROLL (UP) or (DN) until display reads "RUN CODE 1 > ."
 - The display will begin flashing the run code number and code followed by its description.
 - Remember: run code number 1 is the latest code generated.
- 3) Press SET/CLEAR. The display will now read "RUN CODE 2 > ." (This is the run code which was generated before run code 1.)
- 4) Repeat step 3 until all 10 run codes have been displayed or move on to step 5 when ready.
- 5) Press CAL/RUN to return to run mode.

NOTE: For all run codes see Appendix C, Section 10.8.

TROUBLESHOOTING EXAMPLE USING RUN AND ERROR CODE MEMORIES. Fig. 5.

- 1. In Calibration Mode, display and write down each Run Code and Error Code stored in memory.
- 2. List as shown below.
- 3. Refer to Appendix C to interpret the codes.

In this example, the operator was opened using the OPEN key on the keypad and stopped at the up limit. The OPEN wall button was then activated, causing the "6D" code to be generated since the operator could not open when it is already at the up limit. The CLOSE wall button was then activated, causing the operator to close. While closing, the Normally-Open (N-O) Safety Input was activated, causing the operator to stop and then reverse, stopping at the up limit.

Figure 5 **ERROR** RUN CODES CODES NUMBER CODE CODE NUMBER REVERSED DUE TO ACTIVE STOPPED AT UP LIMIT 45 3D WOULD NOT OPEN — ALREADY AT UP LIMIT STOPPED DUE TO ACTIV N-O SAFETY INPUT 2 2 6D• 35 3 00 CLOSED FROM 20 3 CLOSE WALL BUTTON STOPPED AT UP LIMIT 00 4 3D OPENED FROM 14 00 OPEN KEY ACTIVATION 00 6 00 6 RMX STORES "00" CODES IN UNUSED RUN AND ERROR 00 00 CODE MEMORY LOCATIONS AT THE TIME OF MANUFACTURE. AS ERROR OR RUN CODES ARE 00 00 8 8 RECORDED. THE "00" CODES ARE REPLACED WITH VALID CODES 00 00 9 10 10 00 00 .00

LED Indicators Fig. 6

RMX® operators include a self-diagnostic circuit board using troubleshooting LED indicators to signal the technician of a problem.

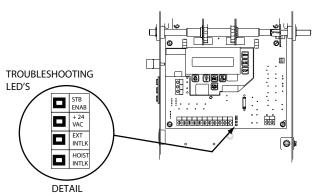


Figure 6

	TROUBLESHOOTING LED's			
HOIST INTERLOCK	EXTERNAL INTERLOCK	+ 24 VOLTS DC	STB ENABLE	INDICATION
			OFF	STB DISABLED
			ON	STB ENABLED
ON	ON	ON		NORMAL OPERATING CONDITION
OFF	ON	ON		HOIST INTERLOCK SWITCH OPEN: 1) HOIST RELEASE NEEDS RESET. 2) HOIST INTERLOCK CONNECTOR NOT PLUGGED IN. 3) HOIST INTERLOCK DEFECTIVE.
OFF	OFF	ON		EXTERNAL INTERLOCK OPEN
OFF	OFF	OFF		POWER SUPPLY PROBLEM: 1) CHECK AC POWER SUPPLY. 2) CHECK MAIN POWER FUSE. 3) CHECK SECONDARY FUSE (2A).

Safe-T-Beam® Monitored Photocell Self-diagnostic Troubleshooting Chart

SOURCE (RED LED)	SENSOR (GREEN LED)	INDICATED CONDITION	REQUIRED ACTION
• on	• ON	NORMAL OPERATION	NONE REQUIRED
O OFF	O OFF	1. POWER HEAD NOT POWERED 2. WIRING FROM POWER HEAD BAD	1. CHECK BREAKERS, FUSES, PLUGS 2. CHECK WIRING FOR OBVIOUS SHORTS
O OFF	• ON	1. WIRING TO SOURCE MISSING OR BAD 2. POWER HAS BEEN INTERRUPTED	1. CHECK WIRING 2. REMOVE POWER AND REAPPLY
2 BLINKS, PAUSE (REPEAT)	• ON	1. BEAM NOT ALIGNED 2. BEAM OBSTRUCTED 3. SENSOR DEFECTIVE	1.CHECK ALIGNMENT 2. CHECK FOR OBSTRUCTION 3. CALL CUSTOMER SERVICE
2 BLINKS, PAUSE (REPEAT)	O OFF	1. WIRE TO SENSOR MISSING OR BAD 2. SENSOR DEFECTIVE	1. CHECK WIRING 2. CALL CUSTOMER SERVICE
3 BLINKS, PAUSE (REPEAT)	• ON	1. SENSOR RECEIVING INTERFERENCE	ATTEMPT TO DETERMINE SOURCE OF INTERFERENCE CALL CUSTOMER SERVICE
4 BLINKS, PAUSE (REPEAT)	• ON	1. SOURCE NOT SENDING PULSES 2. SOURCE DEFECTIVE	1. CALL CUSTOMER SERVICE 2. CALL CUSTOMER SERVICE

AWARNING: ACTUATING THE OPERATOR BY USING CONSTANT CONTACT ON THE <u>CLOSE</u> BUTTON WILL OVERRIDE NON-FUNCTIONING EXTERNAL REVERSING DEVICES, INCLUDING PHOTOCELLS.

A AVERTISSEMENT: L'ACTIVATION DE L'OPERATEUR EN UTILISANT UN CONTACT CONSTANT SUR LE BOUTON FERMER ANNULERA LES DISPOSITIFS D'INVERSIONS EXTERNES, Y COMPRIS LES CELLULES PHOTOELECTRIQUES.

AWARNING: Overhead Door Corporation recommends that line voltage wiring be performed by qualified electrician. See Section 5 for additional wiring instructions.

AVERTISSEMENT: Overhead Door Corporation recommande que le câblage au secteur soit effectué par un électricien qualifié. Voir la section 5 pour des instructions supplémentaires sur le câblage.

Section 9: Service and Maintenance

Maintenance Schedule

The following table provides a schedule of recommended Service and Maintenance items to be completed by a trained service representative.

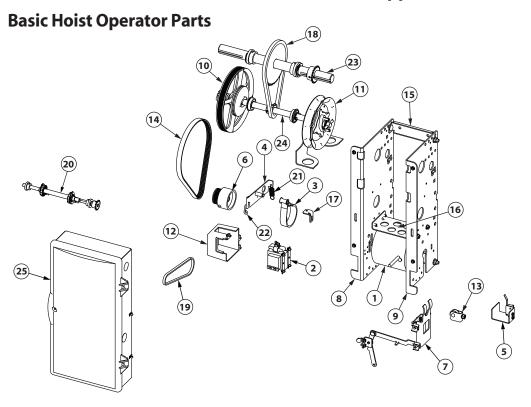
ACAUTION: Failure to perform the recommended Service & Maintenance may result in premature failure of the operator.

ATTENTION: Si les instructions de service et de maintenance recommandés ne sont pas suivies, l'opérateur pourrait tomber en panne prématurément.

SERVICE ITEM	SERVICE	INTERVAL (FRE	QUENCY)
	EVERY 6 MO. OR	EVERY 12 MO. OR	EVERY 36 MO. OR
	5,000 CYCLES	10,000 CYCLES	30,000 CYCLES
MANUAL OPERATION OF DOOR	•		
DRIVE CHAIN TENSION	•		
* PHOTOCELL/ SENSING EDGE OPERATION	•		
CLUTCH ADJUSTMENT		•	
BRAKE ADJUSTMENT		•	
CHECK FOR LOSE OR MISSING HARDWARE		•	
CHECK LIMIT POSITION			•
GEAR TRAIN WEAR			•

 $^{^\}star$ all external reversing devices should be checked monthly.

Section 10: Appendix A

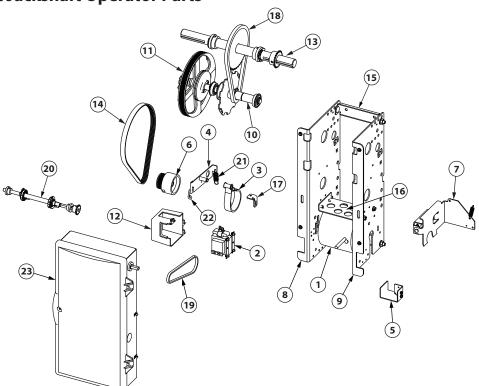


	PARTS LIST	
ITEM NO.	PART NUMBER	DESCRIPTION
1	110380.0001	ELECTRIC MOTOR, 1/2HP, 120V
'	110380.0002	ELECTRIC MOTOR, 1/2HP, 240V
2	110953.0001	BRAKE SOLENOID, 115V
	110954.0001	BRAKE SOLENOID, 230V
3	110956.0001	BRAKE BAND
4	110833.0001	BRAKE RELEASE LEVER
5	110975.0001	INTERLOCK SWITCH
6	110443.0002	BRAKE PULLEY
7	110977.0001	HOIST RELEASE
8	110835.0001	OPERATOR CHASSIS, LEFT
9	111051.0002	OPERATOR CHASSIS, RIGHT
10	110970.0001	CLUTCH KIT
11	110973.0001	HANDWHEEL KIT
12	110952.0001	BRAKE SOLENOID COVER
13	107979.0001	RELEASE PULLEY
14	111010.0001	BELT, POLY-V
15	110803.0001	SUPPORT BRACE
16	110804.0001	SUPPORT BRACKET
17	110808.0001	BRAKE ADJUSTMENT PLATE
18	110877.0058	CHAIN, #35 X 58P
19	086565.1013	CHAIN, #25 X 62P
20	110968.0001	LIMIT SHAFT KIT
21	110824.0001	BRAKE RELEASE SPRING
22	111001.0001	HOOK, Z-BEND
23	110986.0001	OUTPUT SHAFT ASSY
24	110990.0001	CLUTCH SHAFT ASSY
25		ELECTRIC BOX (SEE PAGE 10.5)
-		1

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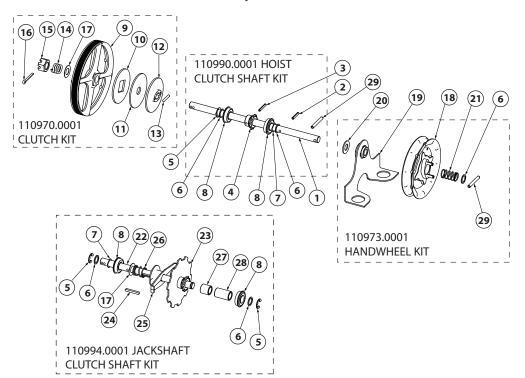
Section 10: Appendix A

Basic Jackshaft Operator Parts



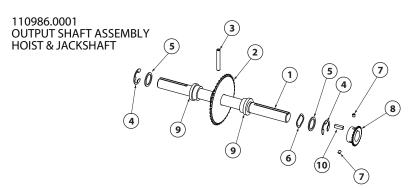
PARTS LIST			
ITEM NO.	PART NUMBER	DESCRIPTION	
1	110380.0001	ELECTRIC MOTOR, 1/2HP, 120V	
'	110380.0002	ELECTRIC MOTOR, 1/2HP, 240V	
2	110953.0001	BRAKE SOLENOID, 115V	
	110954.0001	BRAKE SOLENOID, 230V	
3	110956.0001	BRAKE BAND	
4	110833.0001	BRAKE RELEASE LEVER	
5	110805.0001	BRACKET, WIRE GUARD	
6	110443.0002	BRAKE PULLEY	
7	110979.0001	JACKSHAFT RELEASE	
8	110835.0001	OPERATOR CHASSIS, LEFT	
9	111051.0002	OPERATOR CHASSIS, RIGHT	
10	110994.0001	CLUTCH SHAFT ASSY	
11	110970.0001	CLUTCH KIT	
12	110952.0001	BRAKE SOLENOID COVER	
13	110986.0001	OUTPUT SHAFT ASSY	
14	111010.0001	BELT, POLY-V	
15	110803.0001	SUPPORT BRACE	
16	110804.0001	SUPPORT BRACKET	
17	110808.0001	BRAKE ADJUSTMENT PLATE	
18	110877.0058	CHAIN, #35 X 58P	
19	086565.1013	CHAIN, #25 X 62P	
20	110968.0001	LIMIT SHAFT KIT	
21	110824.0001	BRAKE RELEASE SPRING	
22	111001.0001	HOOK, Z-BEND	
23		ELECTRIC BOX (SEE PAGE 10.5)	

Basic Clutch Shaft Assembly Parts



	ARTS LIST	
ITEM NO.	PART NO.	DESCRIPTION
1	110463.0001	SHAFT, CLUTCH, HOIST
2	110313.0003	PIN, SPRING, .188 DIA X 1.13
3	110313.0008	PIN, SPRING, .188 DIA X 1.38
4	110465.0001	SPRKT, 11T, #35
5	080415.0021	RING, RTNG, 5/8"
6	110819.0001	WASHER, PLAIN, .651 ID
7	110818.0001	WASHER, WAVE SPRING, .650
8	110813.0001	BEARING, .625 ID
9	111324.0001	PULLEY ASSY, CLUTCH
10	108015.0001	MOVABLE CLUTCH PLATE
11	075193.0000	CLUTCH LINING
12	111037.0001	CLUTCH DISC
13	110881.0001	DOWEL PIN
14	075197.0000	SPRING, CLUTCH
15	110472.0001	NUT, HEX, SLOTTED, 5/8-11
16	080401.0624	PIN, COTTER, 3/16 X 1-1/2"
17	086649.0029	WASHER, THRUST .64
18	110872.0001	HANDWHEEL
19	110411.0001	CHAIN GUARD
20	110391.0001	WASHER, SPACER
21	112389.0001	HANDWHEEL SPRING
22	110392.0001	SHAFT, JACKSHAFT CLUTCH
23	110817.0001	SPRKT & ENGAGEMENT PLATE
24	110816.0001	KEY, ROUND END, .188 X 1.50
25	110387.0001	SLIDER, JACKSHAFT, MX
26	110389.0001	SPRING, JACKSHAFT RELEASE
27	110820.0001	BUSHING, .627 ID X .88
28	110821.0001	BUSHING, .627 ID X 1.50
29	110313.0010	PIN, SPRING, 1/4 X 2

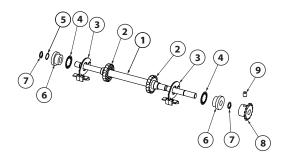
Basic Output Shaft Parts



P/	PARTS LIST			
ITEM NO.	PART NO.	DESCRIPTION		
1	110478.0002	SHAFT, OUTPUT		
2	110482.0001	SPRKT, 40T, 3/8P		
3	110313.0005	PIN, SPRING, .313 X 2.25		
4	080415.0025	RING, RTNG, 63/64		
5	110819.0002	WASHER, PLAIN, 1.026 ID		
6	110818.0002	WASHER, WAVE SPRING, 1.051 ID		
7	080300.1604	SET SCREW, 1/4-20		
8	110460.0003	SPRKT, 23T, 1/4P		
9	106064.0001	BUSHING, 1"		
10	080340.0074	KEY, SQ, 1/4 X 7/8		

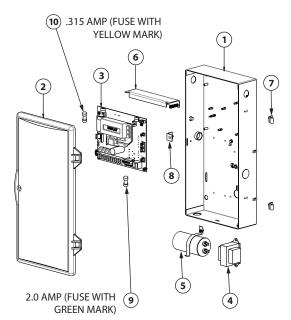
Basic Limit Shaft Parts

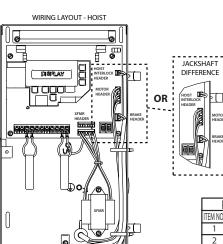
110968.0001 LIMIT SHAFT ASSEMBLY HOIST & JACKSHAFT



P/	PARTS LIST			
ITEM NO.	PART NO.	DESCRIPTION		
1	111048.0001	SHAFT, LIMIT		
2	110459.0001	NUT, TRAVEL		
3	110550.0001	LIMIT TRIGGER		
4	110823.0001	RETAINING RING, PUSH-ON		
5	110818.0003	WASHER, WAVE SPRING, .397 ID		
6	077538.0000	BUSHING, 3/8" ID		
7	109876.0003	RING, RTNG, .338 DIA		
8	601332.0001	SPROCKET, 14T		
9	080300.1604	SET SCREW, 1/4-20		

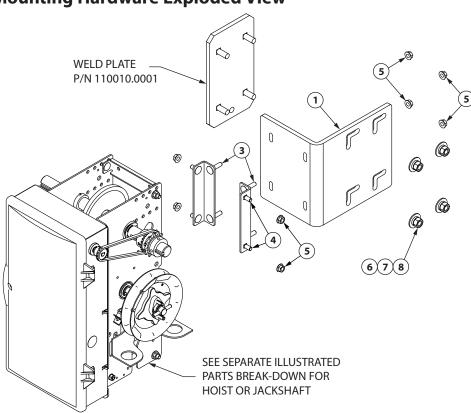
Basic Electric Box Parts





PARTS LIST			
ITEM NO.	PART NO.	DESCRIPTION	
1	110429.0002	ELEC BOX	
2	110869.0002	COVER	
3	111883.0001	KIT, PCB	
4	110846.0001	TRANSFORMER, 120V	
	110846.0002	TRANSFORMER, 240V	
5	110962.0001	CAPACITOR, 115V	
	110963.0001	CAPACITOR, 230V	
6	110958.0001	LIMIT RETAINER	
7	110950.0001	HINGE	
8	110951.0001	LATCH	
9	34004C0002	FUSE, 2A	
10	34004DR315	FUSE, .315 A	

Mounting Hardware Exploded View



P/	ARTS LIST	
ITEM NO.	PART NO.	DESCRIPTION
1	110855.0001	SUPPORT BRACKET
2	110854.0001	MOUNTING BRACKET
3	086420.0510	BOLT, CRG, SQNK, RDH, 5/16-18 X 1-1/4"
4	086420.0506	BOLT, CRG, SQNK, RDH, 5/16-18 X 3/4"
5	24121C05	NUT, 5/16-18, HX SERR FLG
6	080352.0714	NUT, HEX, PLD, 7/16-14
7	080322.0446	WSHR, LOCK, PLD, 7/16 X 25/32 OD
8	080302.3240	WSHR, FLAT, PLD, 7/16 X 1-1/4 OD

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Screw Terminal Assignments

Section 10: Appendix B

INPUT	Ī	FUNCTION	CONNECTION TYPE
11-POSITION	OPEN	Causes door to open if not at Up Limit. Causes a closing door to reverse.	Normally-Open Dry Contact to GND.
TERMINAL BLOCK	CLOSE	Causes door to close if not at Down Limit.	Normally-Open Dry Contact to GND.
INSIDE ELECTRIC BOX	STOP	Causes a moving door to stop. Prevents the operator from running.	Normally-Closed Dry Contact to GND.
	GND	Common ground connection for Open, Close, Stop &1-Btn Inputs.	
	1-BTN	Causes door to open if not at Up Limit or Mid-Stop Limit. Causes door to close if at Up Limit or Mid-Stop Limit. Causes door to stop if opening. Causes a closing door to reverse.	Normally-Open Dry Contact to GND.
	ODC STB	Reverses a closing door if photocell beam is blocked. NOTE: STB's must be enabled in Calibration Mode.	ODC Series II Safe-T-Beams® ONLY to these inputs. (not polarity sensitive)
	ODC STB	Reverses a closing door if photocell beam is blocked. NOTE: STB's must be enabled in Calibration Mode.	ODC Series II Safe-T-Beams® ONLY to these inputs. (not polarity sensitive)
	N-O SAFETY	Causes a closing door to reverse. NOTE: Will not open a stopped door.	Normally-Open 2-Wire Non-Monitored Edge Sensor. (not polarity sensitive)
	N-O SAFETY	Causes a closing door to reverse. NOTE: Will not open a stopped door.	Normally-Open 2-Wire Non-Monitored Edge Sensor. (not polarity sensitive)
	EXT INTLK	Causes a moving door to stop. Prevents the operator from running when contact is open. Operates even if microcontroller is non-functional.	Normally-Closed dry contacts. (board will energize these contacts at nominal +24VDC).
	EXT INTLK	Causes a moving door to stop. Prevents the operator from running when contact is open. Operates even if microcontroller is non-functional.	Normally-Closed dry contacts. (board will energize these contacts at nominal +24VDC).
2-POSITION TERMINAL	L1 / L1	Power to operator.	120VAC: Connect to Line (Hot) / 240VAC: Connect to Line 1.
BLOCK (INSIDE ELECTRIC BOX)	N/L2	Power to operator.	120VAC: Connect to Neutral / 240VAC: Connect to Line 2.

Other Connections

	PWR	Power for radio & other accessories. +20 to +40VDC, fused at 315mA (F1).	Connect to radio or other accessory's power input.
RADIO AND ACCESSORIES PIGTAIL	RAD (Radio Input Control)	Causes door to open if not at Up Limit or Mid-Stop Limit. Causes door to close if at Up Limit or Mid-Stop Limit. Causes a closing door to reverse.	Connect to radio or other accessory's signal (output).
	GND	Common ground connection for PWR and RAD terminals.	Connect to radio or other accessory's ground input.
PLUG CONNECTIONS	EXPANSION PORT	Connects accessory modules to operator.	Accessory Module Ribbon Cable.
INSIDE ELECTRIC BOX	TRANSFORMER	Connects main transformer to control board.	Transformer Plug.
	TRANSFORMER	Connects secondary transformer to control board.	Transformer Plug.
	MOTOR	Connects motor and capacitor to control board.	Motor Plug.
	HOIST INTLK	Causes moving door to stop. Prevents the operator from running. Operates even if microcontroller is non-functional.	Hoist Interlock Plug or Jumper.
	BRAKE	Connects brake solenoid to control board.	Brake Solenoid Plug.

Display Run Codes

Section 10: Appendix C

DISPLAY	Condition Code Description
[IDLE > DOWN LIMIT]	STANDING BY AT DOWN LIMIT (NOTE: THIS MESSAGE IS DISPLAYED IF BOTH LIMITS ARE ACTIVE)
IDLE > UP LIMIT	STANDING BY AT UP LIMIT
IDLE > MID STOP	STANDING BY AT MID-STOP LIMIT
IDLE > NO LIMIT	STANDING BY BETWEEN LIMITS
OPENING > OPEN BTN	OPENING FROM OPEN BUTTON
OPENING > ONE BTN	OPENING FROM 1 BUTTON
OPENING > RADIO	OPENING FROM RADIO
OPENING > AUX OPEN	OPENING FROM AUXILIARY OPEN INPUT
OPENING > OPEN KEY	OPENING FROM KEYPAD OPEN KEY
CLOSING > CLOSE PB	CLOSING FROM CLOSE BUTTON
CLOSING > ONE BTN	CLOSING FROM 1 BUTTON
CLOSING > RADIO	CLOSING FROM RADIO
CLOSING > CLOSE KP	CLOSING FROM KEYPAD CLOSE KEY
CLOSING > TCM CLS	CLOSING FROM TIMER CLOSE MODULE
HALT > WALL BUTTON	GDO STOPPED BECAUSE STOP OR OPEN BUTTON WAS ACTIVATED, POSSIBLY STARTING A REVERSAL
HALT > ONE BUTTON	GDO STOPPED BECAUSE 1 BUTTON WAS ACTIVATED, POSSIBLY STARTING A REVERSAL
HALT > RADIO	GDO STOPPED BECAUSE RADIO INPUT WAS ACTIVATED, STARTING A REVERSAL
HALT > AUX. OPEN	GDO STOPPED BECAUSE AUXILIARY OPEN INPUT WAS ACTIVATED, STARTING A REVERSAL
HALT > KEYPAD KEY	GDO STOPPED BECAUSE KEYPAD STOP OR OPEN KEY WAS ACTIVATED, POSSIBLY STARTING A REVERSAL
HALT > N-O SAFETY	GDO STOPPED BECAUSE N-O REVERSING INPUT WAS ACTIVATED, STARTING A REVERSAL
HALT > ODC STB	GDO STOPPED BECAUSE ODC STB WAS BLOCKED, STARTING A REVERSAL
HALT > N-C SAFETY	GDO STOPPED BECAUSE N-C REVERSING INPUT WAS ACTIVATED, STARTING A REVERSAL
HALT > MON. EDGE	GDO STOPPED BECAUSE MONITORED EDGE SENSOR INPUT WAS ACTIVATED, STARTING A REVERSAL
HALT > DOOR FORCE	GDO STOPPED BECAUSE THE FORCE REQUIRED TO OPERATE THE DOOR WAS TOO HIGH, POSSIBLY STARTING A REVERSAL
HALT > LOSS OF C/C	GDO STOPPED BECAUSE CONSTANT CONTACT ON THE CONTROL WAS REMOVED BEFORE REACHING A LIMIT, POSSIBLY STARTING A REVERSAL
HALT > SHUTDOWN	GDO STOPPED BECAUSE THE GDO DETECTED A FAULT SUCH AS AN OPEN INTERLOCK, OVERHEATED MOTOR, ETC.
HALT > DOWN LIMIT	GDO STOPPED BECAUSE IT REACHED THE DOWN LIMIT
HALT > UP LIMIT	GDO STOPPED BECAUSE IT REACHED THE UP LIMIT
HALT > MID STOP	GDO STOPPED BECAUSE IT REACHED THE MID-STOP LIMIT
HALT > MODULE FAIL	GDO STOPPED BECAUSE AN EXPANSION MODULE WAS NOT WORKING PROPERLY
	IDLE > DOWN LIMIT IDLE > UP LIMIT IDLE > MID STOP IDLE > NO LIMIT OPENING > OPEN BTN OPENING > OPEN BTN OPENING > AUX OPEN OPENING > CLOSE PB CLOSING > CLOSE PB CLOSING > CLOSE KP CLOSING > CLOSE KP CLOSING > TCM CLS HALT > WALL BUTTON HALT > AUX. OPEN HALT > AUX. OPEN HALT > NO SAFETY HALT > NO SAFETY HALT > NO SAFETY HALT > NO SAFETY HALT > DOC STB HALT > SAFETY HALT > DOC STB HALT > SAFETY HALT > DOC STB HALT > DOC STB

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Display Error Codes Condition DISPLAY

Section 10: Appendix C

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ondition Code	DISPLAY	Condition Code Description
40	REV > OPEN BUTTON	GDO REVERSED BECAUSE THE OPEN BUTTON WAS ACTIVATED
41	REV > ONE BUTTON	GDO REVERSED BECAUSE THE 1 BUTTON WAS ACTIVATED
42	REV > RADIO	GDO REVERSED BECAUSE THE RADIO INPUT WAS ACTIVATED
43	REV > AUX OPEN	GDO REVERSED BECAUSE THE AUXILIARY OPEN INPUT WAS ACTIVATED
44	REV > OPEN KEY	GDO REVERSED BECAUSE THE KEYPAD OPEN KEY WAS ACTIVATED
45	REV > N-O SAFETY	GDO REVERSED BECAUSE THE N-O REVERSING INPUT WAS ACTIVATED
46	REV > ODC STB	GDO REVERSED BECAUSE THE ODC STB WAS BLOCKED
47	REV > N-C SAFETY	GDO REVERSED BECAUSE THE N-C REVERSING INPUT WAS ACTIVATED
48	REV > MON. EDGE	GDO REVERSED BECAUSE THE MONITORED EDGE SENSOR WAS ACTIVATED
49	REV > DOOR FORCE	GDO REVERSED BECAUSE THE FORCE REQUIRED TO CLOSE THE DOOR WAS TOO HIGH
4A	REV > LOSS OF C/C	GDO REVERSED BECAUSE CONSTANT CONTACT ON THE CONTROL WAS REMOVED BEFORE REACHING THE DOWN LIMIT
4B	REV > MAX RUN TMR	GDO REVERSED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN TOO LONG
4F	REV > EXP MOD FAIL	GDO REVERSED BECAUSE AN EXPANSION MODULE WAS NOT WORKING PROPERLY
50	STOP > HOT MOTOR	GDO STOPPED BECAUSE THE MOTOR WAS OVERHEATED
51	STOP > OPEN MRT	GDO STOPPED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN OPEN TOO LONG
52	STOP > CLOSE MRT	GDO STOPPED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN DOWN TOO LONG
57	STOP > OPEN INTLK	GDO STOPPED BECAUSE THE HOIST INTERLOCK OR EXTERNAL INTERLOCK IS OPEN
58	STOP > WRONG GDO	GDO STOPPED BECAUSE THE BOARD IS SET FOR JACKSHAFT MODE, BUT INSTALLED IN A TROLLEY OPERATOR
59	STOP > DOOR FORCE	GDO STOPPED BECAUSE THE FORCE REQUIRED TO OPEN THE DOOR WAS TOO HIGH
5A	STOP > WRONG LIMIT	GDO STOPPED BECAUSE THE UP LIMIT ACTIVATED WHEN CLOSING OR THE DOWN LIMIT ACTIVATED WHEN OPENING
5C	STALL > DOWN LIMIT	GDO STOPPED BECAUSE IT COULDN'T LEAVE THE DOWN LIMIT DUE TO A SLIPPING CLUTCH OR OTHER PROBLEM
5D	STALL > UP LIMIT	GDO STOPPED BECAUSE IT COULDN'T LEAVE THE UP LIMIT DUE TO A SLIPPING CLUTCH OR OTHER PROBLEM
60	CHECK STOP BTN	GDO WON'T RUN BECAUSE THE STOP BUTTON IS ACTIVE
61	TCM DISABLED	TIMER CLOSE WON'T WORK BECAUSE NO SAFETIES ARE ENABLED
62	NO RADIO >> C/C	RADIO INPUT WON'T WORK WITH OPEN OR CLOSE FUNCTION IN CONSTANT CONTACT MODE
63	CHECK AUX OPEN	GDO WON'T CLOSE BECAUSE AUXILIARY OPEN INPUT IS ACTIVE
64	CHECK STOP KEY	GDO WON'T RUN BECAUSE THE KEYPAD STOP KEY IS ACTIVE
65	CHECK N-O SAFETY	GDO WON'T CLOSE BECAUSE THE N-O REVERSING IS ACTIVE
66	CHECK ODC STB	GDO WON'T CLOSE BECAUSE THE ODC STB IS BLOCKED
67	CHECK N-C SAFETY	GDO WON'T CLOSE BECAUSE THE N-C REVERSING INPUT IS ACTIVE
68	CHECK MON. EDGE	GDO WON'T CLOSE BECAUSE THE MONITORED EDGE SENSOR IS ACTIVE
69	OVERHEATED MOTOR	GDO WON'T RUN BECAUSE THE MOTOR IS OVERHEATED
6C	NO RUN > DOWN LIM	GDO WON'T CLOSE BECAUSE ITS ALREADY AT THE DOWN LIMIT
6D	NO RUN > UP LIMIT	GDO WON'T OPEN BECAUSE ITS ALREADY AT THE UP LIMIT
6E	NO RUN > MID STOP	GDO WON'T RUN BECAUSE ITS AT OR ABOVE THE MID-STOP LIMIT & CAN'T RUN UP & A REVERSING INPUT IS PREVENTING IT FROM CLOSING
6F	EXP MODULE FAIL	GDO WON'T RUN BECAUSE AN EXPANSION MODULE FAILURE IS PREVENTING IT

Section 10: Appendix C

Display Error Codes (cont')

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Condition Code	DISPLAY	Condition Code Description
70	BOARD FAILURE 70	CONTROL BOARD FAILURE 70, CONTACT FACTORY TECHNICAL SERVICE DEPT.
71	BOARD FAILURE 71	CONTROL BOARD FAILURE 71, CONTACT FACTORY TECHNICAL SERVICE DEPT.
74	BOARD FAILURE 74	CONTROL BOARD FAILURE 74, CONTACT FACTORY TECHNICAL SERVICE DEPT.
75	BOARD FAILURE 75	CONTROL BOARD FAILURE 75, CONTACT FACTORY TECHNICAL SERVICE DEPT.
76	BOARD FAILURE 76	CONTROL BOARD FAILURE 76, CONTACT FACTORY TECHNICAL SERVICE DEPT.
77	BOARD FAILURE 77	CONTROL BOARD FAILURE 77, CONTACT FACTORY TECHNICAL SERVICE DEPT.
80	BOARD FAILURE 80	CONTROL BOARD FAILURE 80, CONTACT FACTORY TECHNICAL SERVICE DEPT.
81	BOARD FAILURE 81	CONTROL BOARD FAILURE 81, CONTACT FACTORY TECHNICAL SERVICE DEPT.
82	BOARD FAILURE 82	CONTROL BOARD FAILURE 82, CONTACT FACTORY TECHNICAL SERVICE DEPT.
83	BOARD FAILURE 83	CONTROL BOARD FAILURE 83, CONTACT FACTORY TECHNICAL SERVICE DEPT.
84	BOARD FAILURE 84	CONTROL BOARD FAILURE 84, CONTACT FACTORY TECHNICAL SERVICE DEPT.
85	EXP PORT PROBLEM	EXPANSION PORT IS SHORT CIRCUITED, TRY DISCONNECTING EXPANSION MODULES OR CONTACT FACTORY TECHNICAL SERVICE DEPT.
86	BOARD FAILURE 86	CONTROL BOARD FAILURE 86, DISCONNECT EXPANSION MODULES. IF NO CHANGE, CONTACT FACTORY TECHNICAL SERVICE DEPT.
88	TCM FAILURE	TIMER CLOSE MODULE (TCM) HAS FAILED
8A	AOM FAILURE	AUXILIARY OUTPUT MODULE (AOM) HAS FAILED
8E	REV INTERRUPTED	GDO LOST POWER OR ENCOUNTERED ANOTHER PROBLEM DURING THE REVERSAL PROCESS, REVERSAL IS COMPLETING NOW
8F	LIMIT MOD. FAIL	GDO WON'T RUN, LIMIT MODULE HAS FAILED
90	DIAGNOSTIC MODE	GDO IS IN DIAGNOSTIC MODE, NORMAL FUNCTIONS ARE NOT ALLOWED
A0	OPEN BTN BAD > PU	OPEN & CLOSE BUTTONS WON'T WORK, THE OPEN BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A1	CLOSE BTN BAD > PU	OPEN & CLOSE BUTTONS WON'T WORK, THE CLOSE BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A2	ONE BTN BAD > PU	1 BUTTON WON'T WORK, THE 1 BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A3	RADIO BAD > PWR UP	RADIO INPUT WON'T WORK, THE RADIO INPUT WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A4	AUX OPEN BAD > PU	AUXILIARY OPEN INPUT WON'T WORK, THE AUXILIARY OPEN INPUT WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A5	OPEN KEY BAD > PU	KEYPAD OPEN & CLOSE KEYS WON'T WORK, THE OPEN KEY WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A6	CLOSE KEY BAD > PU	KEYPAD OPEN & CLOSE KEYS WON'T WORK, THE CLOSE KEY WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A7	MULT KEYS BAD > PU	1 OR MORE KEYPAD CALIBRATION KEYS WON'T WORK, 1 OR MORE WERE ACTIVE WHEN THE GDO WAS POWERED-UP
AA	TCM BAD > POWER UP	TIMER CLOSE MODULE WON'T CLOSE DOOR, IT WAS ACTIVE WHEN THE GDO WAS POWERED-UP

Section 11: Warranty

The authorized distributor of Overhead Door Corporation products whose name appears below ("Seller") warrants to the original purchaser of the Operator specified below ("Operator"), subject to all the terms and conditions hereof, that the Operator will be free from defects in material and workmanship under normal use and service until the earlier of the following to occur:

1. Two (2) years after the date of installation

or

2. When the Operator exceeds 20,000 cycles of operation, as measured by the integrated cycle counter contained in the Operator.

Sellers sole obligation under this warranty is specifically limited to repairing or replacing, at it's option, any parts which shall be determined by Seller to be defective during the warranty period. Any labor charges are excluded and will be the responsibility of the owner.

This warranty applies only to an operator which is installed in commercial or industrial building applications. This warranty does not apply if the Operator has been altered or repaired by any person not authorized by Overhead Door Corporation to do so, or if it has been damaged due to misuse, accident or failure to provide necessary maintenance. This warranty is made only to the original purchaser of the Operator and is not transferrable or assignable.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL OVERHEAD DOOR CORPORATION BE RESPONSIBLE FOR, OR LIABLE TO ANYONE FOR, SPECIAL, INDIRECT, COLLATERAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES, even if Overhead Door Corporation has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of goodwill, loss of profits, loss of use, interruption of business, or other similar indirect financial loss.

Claims under this warranty must be made in writing promptly to the Seller whose name and address appears to the right, and must be made within the warranty period. (Proof of purchase and identification as the original purchaser may be required.)

Overhead Door Corporation's Operator Division will only accept returned materials that are in warranty. Products being returned must be accompanied by a Return Authorization (RA) Tag. To obtain a Return Authorization Tag please use the following quidelines.

- Complete Operators will not be replaced without prior approval from the Operator Division.
- To return an Operator part during the warranty period, the Seller must contact the Technical Service Group of the Operator Division at 1-800-275-6187. The following information is required: Operator Model Number, Date Code, Voltage, Phase & Horsepower, and a description of the malfunction. The Technical Service Group will issue, via mail, an RA Tag for the part.
- Upon receipt of the part, the Operator Division will evaluate the part for a defect in material and/or workmanship. If it is determined there is a defect, the Seller will be credited the cost of the part. If it is determined there is not a defect in material and/or workmanship, no credit will be issued.

Model # (On electric box cover)
Serial # (On electric box cover)
Date Code
Original Purchaser
Installation Address
Door Number (Multiple door installations)
Door Type
Seller
Sellers Address
Date of Installation
Signature of Seller

The Genuine. The Original.



1 DOOR DRIVE MT. HOPE, OHIO 44660

> CODE 128 BARCODE LOCATION

> > 110930.502554